KBJ2004~KBJ2010

Glass Passivated Bridge Rectifiers

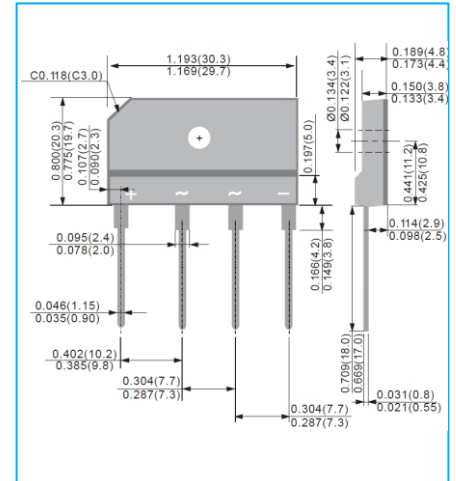| VOLTAGE | 400 to 1000 Volt | CURRENT | 20 Ampere | KBJ | Unit: Inch(mm) |

FEATURES

- UL Recognized File #E228882
- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Glass passivated chip junction

MECHANICAL DATA

- Case: KBJ
- Terminals: Leads solderable per MIL-STD-750, Method 2026
- Polarity: As marked on body
- Mounting torque: 8.5 inch-lbs. Max.
- Weight: 6.96g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified.

PARAMETER	SYMBOL	KBJ 2004	KBJ 2006	KBJ 2008	KBJ 2010	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	20				A
Peak forward surge current, 8.3 ms single half sine-wave	I_{FSM}	300				A
Rating of fusing (t<8.3ms) (Note1)	I^2t	373				A^2s
Maximum instantaneous forward voltage per diode $\quad I_F = 10\ A$ $\qquad\qquad\qquad\qquad\qquad I_F = 20\ A$	V_F	1 1.1				V
Maximum reverse current @ rated V_R $\quad T_J = 25°C$ $\qquad\qquad\qquad\quad T_J = 125°C$	I_R	5 500				µA
Typical junction capacitance (Note 2)	C_J	94				pF
Typical thermal resistance $\quad$ (Note 3) $\qquad\qquad\qquad\qquad\qquad$ (Note 4)	$R_{\theta JA}$ $R_{\theta JC}$	22 1.2				°C/W
Operating junction temperature range	T_J	- 55 to +150				°C
Storage temperature range	T_{STG}	- 55 to +150				°C

Note 1: Non-repetitive, for t＞1ms and＜8.3ms.
Note 2: Measured at 1MHz and applied Reverse bias of 4V DC
Note 3: Products installed on the PCB, Without heatsink。
Note 4: Products installed on aluminum plate heatsink。

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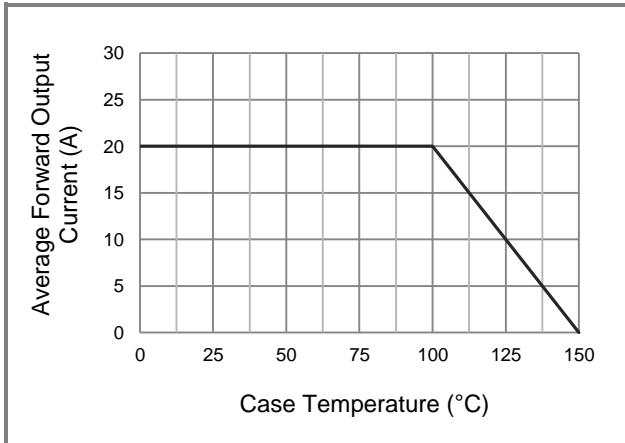
TYPICAL CHARACTERISTIC CURVES
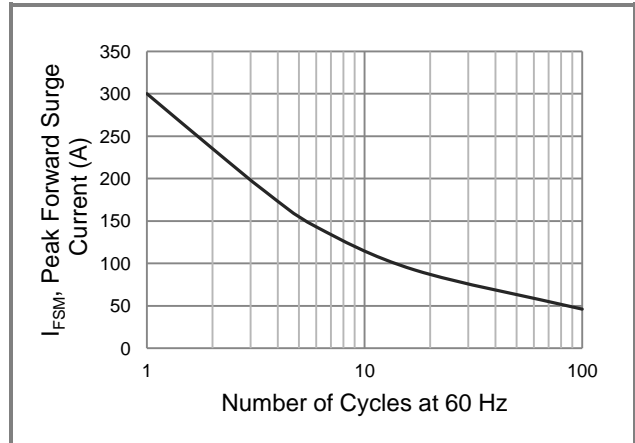
Fig.1 Forward Current Derating Curve
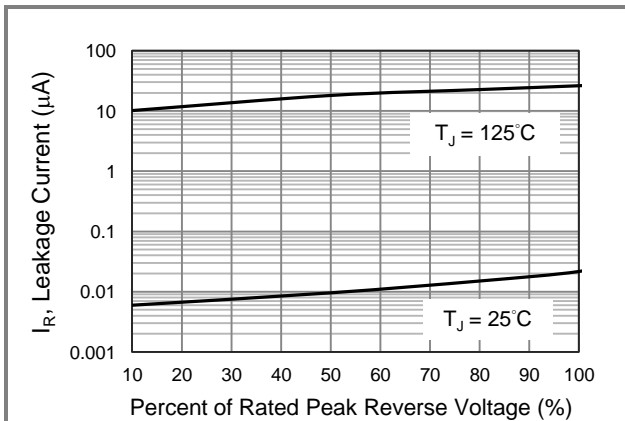
Fig.2 Maximum Forward Surge Current
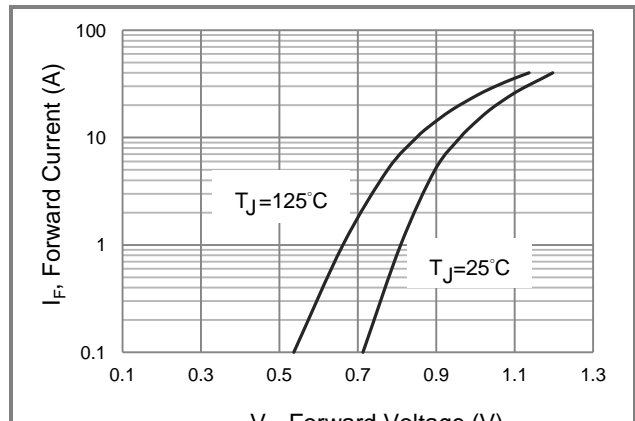
Fig.3 Typical Reverse Characteristics

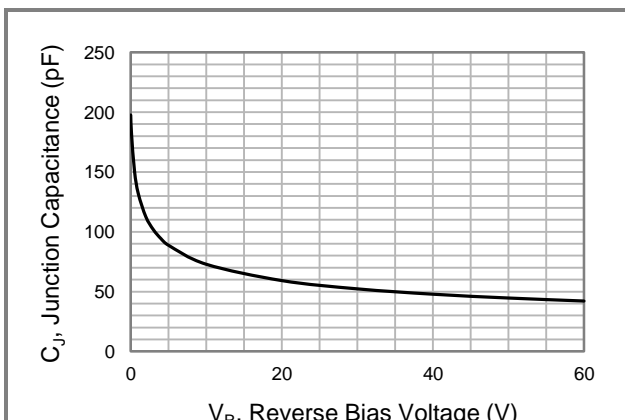**Fig.4 Typical Forward Characteristics**
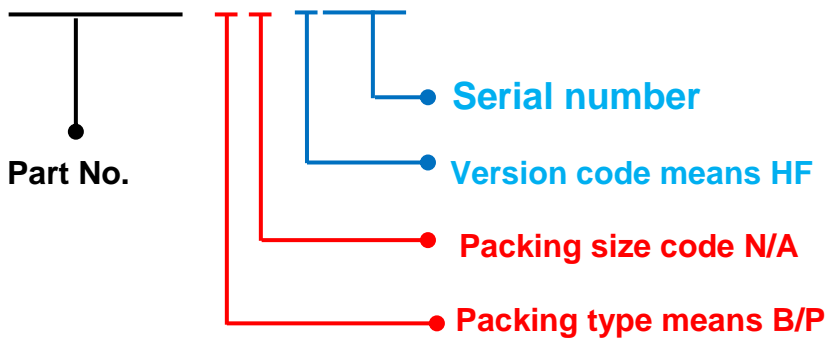
Fig.5 Typical Junction Capacitance

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Part No_packing code_Version

KBJ2004_B0_00001
KBJ2004_B0_10001

For example :
KBJ2004_B0_00001

Part No.

Serial number

Version code means HF

Packing size code N/A

Packing type means B/P

Packing Code XX				Version Code XXXXX		
Packing type	**Ist Code**	**Packing size code**	**2stCode**	**HF or RoHS**	**Ist Code**	**2st ~5st Code**
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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